FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Angelina Forest Products, LLC

AUTHORIZING THE OPERATION OF
Angelina Forest Products Sawmill
Lumber Mill
Sawmills

LOCATED AT
Angelina County, Texas
Latitude 31° 17' 34" Longitude 94° 37' 28"
Regulated Entity Number: RN110406907

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No: O4132 Issuance Date: _____

_____
For the Commission

Table of Contents

General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:

    A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.

    B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.

    C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.

    D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.

E. Emission units subject to 40 CFR Part 63, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.

F. Emission units subject to 40 CFR Part 63, Subpart DDDD as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.870 which incorporates the 40 CFR Part 63 Subpart by reference.

2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):

A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements

B. Title 30 TAC § 101.3 (relating to Circumvention)

C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ

D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ

E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)

F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)

G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)

H. Title 30 TAC § 101.221 (relating to Operational Requirements)

I. Title 30 TAC § 101.222 (relating to Demonstrations)

J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)

3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:

A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:

(i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(1)(E)

(iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)

(iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic

monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the "Applicable Requirements Summary" attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

(1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.

(2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.

(3) Records of all observations shall be maintained.

(4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under

30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

(c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)

(iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

(1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.

(2) Records of all observations shall be maintained.

(3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which

condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A).

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

C. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.

D. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:

(i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)

(ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)

(iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)

4. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:

A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)

B. Title 40 CFR § 60.8 (relating to Performance Tests)

C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)

D. Title 40 CFR § 60.12 (relating to Circumvention)

E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)

F. Title 40 CFR § 60.14 (relating to Modification)

G. Title 40 CFR § 60.15 (relating to Reconstruction)

H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)

5. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

New Source Review Authorization Requirements

6. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:

   A. Are incorporated by reference into this permit as applicable requirements

   B. Shall be located with this operating permit

   C. Are not eligible for a permit shield

7. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.

8. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

9. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period

may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.

10. Use of Discrete Emission Credits to comply with the applicable requirements:

    A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:

        (i) Title 30 TAC Chapter 115

        (ii) Title 30 TAC Chapter 117

        (iii) If applicable, offsets for Title 30 TAC Chapter 116

        (iv) Temporarily exceed state NSR permit allowables

    B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:

        (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)

        (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4

        (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)

        (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122

        (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Permit Location

11. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

12. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Attachments

Applicable Requirements Summary

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
FWP-1	SRIC ENGINES	N/A	60IIII-01	40 CFR Part 60, Subpart IIII	No changing attributes.
FWP-1	SRIC ENGINES	N/A	63ZZZZ-01	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRPKILN	PLYWOOD AND COMPOSITE WOOD PRODUCTS	05, 06, 20	63DDDD-01	40 CFR Part 63, Subpart DDDD	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FWP-1	EU	60IIII-01	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with an NMHC+NOx emission limit of 4.0 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
FWP-1	EU	60IIII-01	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
FWP-1	EU	63ZZZZ-01	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			
GRPKILN	EU	63DDDD-01	112(B) HAPS	40 CFR Part 63, Subpart DDDD	§ 63.2231 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDD

Permit Shield

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRPTANKS1	27-1164, 28, 29	40 CFR Part 60, Subpart Kb	Storage vessels with a capacity less than 75 cubic meters (19,800 gallons) are not subject to NSPS Kb.
GRPTANKS2	31, 32, 33, 34, 35, 36, 48-3610	40 CFR Part 60, Subpart Kb	Storage vessels with a capacity less than 75 cubic meters (19,800 gallons) are not subject to NSPS Kb.

New Source Review Authorization References

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: PSDTX1538	Issuance Date: 02/19/2019
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 152131	Issuance Date: 02/19/2019
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.412	Version No./Date: 09/04/2000
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
05	CONTINUOUS DRY KILN A	152131, PSDTX1538
06	CONTINUOUS DRY KILN B	152131, PSDTX1538
20	BATCH KILN	152131, PSDTX1538
27-1164	FIRE PUMP DIESEL TANK	106.412/09/04/2000
28	DIESEL STORAGE TANK	106.412/09/04/2000
29	GASOLINE STORAGE	106.412/09/04/2000
31	BULK OIL STORAGE #1	106.472/09/04/2000
32	BULK OIL STORAGE #2	106.472/09/04/2000
33	BULK OIL STORAGE #3	106.472/09/04/2000
34	BULK OIL STORAGE #4	106.472/09/04/2000
35	HYDRAULIC BULK OIL TANK #1	106.472/09/04/2000
36	HYDRAULIC BULK OIL TANK #2	106.472/09/04/2000
48-3610	STEM DECK LOADER HYDRAULIC TANK	106.472/09/04/2000
FWP-1	FIRE PUMP ENGINE	106.511/09/04/2000

Appendix A

Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM ..... actual cubic feet per minute
AMOC ..... alternate means of control
ARP ..... Acid Rain Program
ASTM ..... American Society of Testing and Materials
B/PA ..... Beaumont/Port Arthur (nonattainment area)
CAM ..... Compliance Assurance Monitoring
CD ..... control device
CEMS ..... continuous emissions monitoring system
CFR ..... Code of Federal Regulations
COMS ..... continuous opacity monitoring system
CVS ..... closed vent system
D/FW ..... Dallas/Fort Worth (nonattainment area)
EP ..... emission point
EPA ..... U.S. Environmental Protection Agency
EU ..... emission unit
FCAA Amendments ..... Federal Clean Air Act Amendments
FOP ..... federal operating permit
gr/100 scf ..... grains per 100 standard cubic feet
HAP ..... hazardous air pollutant
H/G/B ..... Houston/Galveston/Brazoria (nonattainment area)
H_2S ..... hydrogen sulfide
ID No. ..... identification number
lb/hr ..... pound(s) per hour
MACT ..... Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr ..... Million British thermal units per hour
NA ..... nonattainment
N/A ..... not applicable
NADB ..... National Allowance Data Base
NESHAP ..... National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO_x ..... nitrogen oxides
NSPS ..... New Source Performance Standard (40 CFR Part 60)
NSR ..... New Source Review
ORIS ..... Office of Regulatory Information Systems
Pb ..... lead
PBR ..... Permit By Rule
PEMS ..... predictive emissions monitoring system
PM ..... particulate matter
ppmv ..... parts per million by volume
PRO ..... process unit
PSD ..... prevention of significant deterioration
psia ..... pounds per square inch absolute
SIP ..... state implementation plan
SO_2 ..... sulfur dioxide
TCEQ ..... Texas Commission on Environmental Quality
TSP ..... total suspended particulate
TVP ..... true vapor pressure
U.S.C. ..... United States Code
VOC ..... volatile organic compound

Appendix B

Major NSR Summary Table

Permit Numbers 152131 and PSDTX1538					Issuance Date: February 19, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
1	Debarker (5)	PM	0.06	0.13	8, 32	9, 32, 42	
		PM_{10}	0.03	0.07			
		$PM_{2.5}$	0.02	0.03			
2	Bark Hog (5)	PM	<0.01	0.02	8, 32	9, 32, 42	
		PM_{10}	<0.01	<0.01			
		$PM_{2.5}$	<0.01	<0.01			
3	Sawing Operations (5)	PM	1.00	2.11	8, 32	9, 32, 42	
		PM_{10}	0.50	1.06			
		$PM_{2.5}$	0.25	0.53			
4	Chipper (5)	PM	<0.01	0.01	8, 32	9, 32, 42	
		PM_{10}	<0.01	<0.01			
		$PM_{2.5}$	<0.01	<0.01			

Major NSR Summary Table

Permit Numbers 152131 and PSDTX1538					Issuance Date: February 19, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
5	Continuous Dry Kiln A (30 MMBtu/hr)	PM	1.65	6.85	4, 6	2, 9, 42	2, 5
		PM_{10}	1.65	6.85			
		$PM_{2.5}$	1.37	5.71			
		NO_x	1.13	4.69			
		CO	10.49	43.59			
		SO_2	0.75	3.12			
		VOC	105.27	380.42			
		HAP	5.69	21.19			
5MSS	Green Fuel Burner A Startup	PM	3.41	0.08		22, 23, 24, 25, 26, 42	
		PM_{10}	3.02	0.07			
		$PM_{2.5}$	2.63	0.06			
		NO_x	2.34	0.06			
		CO	5.80	0.14			
		SO_2	0.24	<0.01			
		VOC	0.16	<0.01			
		HAP	0.37	<0.01			

Major NSR Summary Table

Permit Numbers 152131 and PSDTX1538					Issuance Date: February 19, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
6	Continuous Dry Kiln B (30 MMBtu/hr)	PM	1.65	6.85	4, 6	2, 9, 42	2, 5
		PM_{10}	1.65	6.85			
		$PM_{2.5}$	1.37	5.71			
		NO_x	1.13	4.69			
		CO	10.49	43.59			
		SO_2	0.75	3.12			
		VOC	105.27	380.42			
		HAP	5.69	21.19			
6MSS	Green Fuel Burner B Startup	PM	3.41	0.08		22, 23, 24, 25, 26, 42	
		PM_{10}	3.02	0.07			
		$PM_{2.5}$	2.63	0.06			
		NO_x	2.34	0.06			
		CO	5.80	0.14			
		SO_2	0.24	<0.01			
		VOC	0.16	<0.01			
		HAP	0.37	<0.01			

Major NSR Summary Table

Permit Numbers 152131 and PSDTX1538					Issuance Date: February 19, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
7	Shaving System Cyclone Discharge Stack	PM	3.94	9.86	6, 19, 29, 30, 37	10, 29, 30, 37, 42	29, 34, 35, 36, 38, 39, 41
		PM_{10}	1.38	3.45			
		$PM_{2.5}$	0.43	1.08			
8	Dry Waste Cyclone Discharge Stack	PM	1.11	2.79	6, 19, 29, 30, 37	10, 29, 30, 37, 42	29, 34, 35, 36, 38, 39, 41
		PM_{10}	0.39	0.98			
		$PM_{2.5}$	0.12	0.31			
9	Dry Fuel HP Transfer Cyclone Stack	PM	0.03	0.09	6, 19, 30, 37	10, 30, 37, 42	34, 35, 36, 38, 39, 41
		PM_{10}	0.01	0.03			
		$PM_{2.5}$	<0.01	<0.01			
10	Kiln A Fuel Silo HP Transfer Cyclone Stack	PM	0.15	0.68	6, 18, 19, 30, 37	30, 37, 42	34, 35, 36, 38, 39, 41
		PM_{10}	0.05	0.24			
		$PM_{2.5}$	0.02	0.07			
11	Kiln B Fuel Silo HP Transfer Cyclone Stack	PM	0.15	0.68	6, 18, 19, 30, 37	30, 37, 42	34, 35, 36, 38, 39, 41
		PM_{10}	0.05	0.24			
		$PM_{2.5}$	0.02	0.07			

Major NSR Summary Table

Permit Numbers 152131 and PSDTX1538					Issuance Date: February 19, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
12	Bark Bin Transfer (5)	PM	<0.01	<0.01	8, 32	32, 42	
		PM_{10}	<0.01	<0.01			
		$PM_{2.5}$	<0.01	<0.01			
13	Chip Bin Transfer (5)	PM	<0.01	0.02	8, 32	32, 42	
		PM_{10}	<0.01	<0.01			
		$PM_{2.5}$	<0.01	<0.01			
14	Shavings Bin HP Transfer Filter Bin Vent	PM	0.27	0.66	7, 8, 19, 31	10, 31, 42	31
		PM_{10}	0.09	0.23			
		$PM_{2.5}$	0.03	0.07			
15	Chip Screens A and B (5)	PM	<0.01	<0.01	8, 32	32, 42	
		PM_{10}	<0.01	<0.01			
		$PM_{2.5}$	<0.01	<0.01			
16	Green Fuel Metering Bin (5)	PM	<0.01	<0.01	8, 32	32, 42	
		PM_{10}	<0.01	<0.01			
		$PM_{2.5}$	<0.01	<0.01			

Major NSR Summary Table

Permit Numbers 152131 and PSDTX1538					Issuance Date: February 19, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
17	Bark Truck Bin (5)	PM	0.05	0.09	8, 32	32, 42	
		PM_{10}	0.02	0.04			
		$PM_{2.5}$	<0.01	<0.01			
18	Chips Truck Bin (5)	PM	0.09	0.18	8, 32	32, 42	
		PM_{10}	0.04	0.09			
		$PM_{2.5}$	<0.01	0.01			
19	Shavings Truck Bin (5)	PM	0.02	0.04	8, 32	32, 42	
		PM_{10}	<0.01	0.02			
		$PM_{2.5}$	<0.01	<0.01			

Major NSR Summary Table

Permit Numbers 152131 and PSDTX1538					Issuance Date: February 19, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
20	Batch Kiln (40 MMBtu/hr)	PM	0.56	2.11	4, 6	3, 9, 42	3, 5
		PM_{10}	0.56	2.11			
		$PM_{2.5}$	0.56	2.11			
		NO_x	3.92	17.18			
		CO	3.29	14.43			
		SO_2	0.02	0.10			
		VOC	40.06	122.12			
		HAP	2.63	8.11			

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Planned startup and shutdown emissions are included. Maintenance activities, except as specified in Special Condition Nos. 22 through 28, are not authorized by this permit and will need separate authorization, unless the activity can meet the conditions of 30 TAC § 116.119.

Texas Commission on Environmental Quality
Air Quality Permit

A Permit Is Hereby Issued To
Angelina Forest Products, LLC
Authorizing the Construction and Operation of
Lumber Mill
Located at **Lufkin, Angelina County, Texas**
Latitude 31° 17′ 34″ Longitude −94° 37′ 28″

Permit: 152131 and PSDTX1538

Issuance Date: February 19, 2019

Expiration Date: February 19, 2029

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)] [1]
2. **Voiding of Permit**. A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1) the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of $5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress**. Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification**. The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements**. If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]
6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and

operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]

8. **Maximum Allowable Emission Rates**. The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)] [1]
9. **Maintenance of Emission Control**. The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC § 101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC § 116.115(b)(2)(G)]
10. **Compliance with Rules**. Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to "air pollution" as defined in Texas Health and Safety Code (THSC) § 382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit. [1]

[1] Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Special Conditions

Permit Numbers 152131 and PSDTX1538

Emission Limitations

1. This permit authorizes only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates," and those sources are limited to the emission rates and other conditions specified in the table. In addition, this permit authorizes all emissions from planned startup and shutdown activities associated with facilities or groups of facilities that are authorized by this permit.

Fuel Specifications

2. Fuel for the Continuous Dry Kilns A and B (Emission Point Nos. [EPN] 5 and 6) shall be limited to wood fuel (comprising bark, sawdust, and wood chips that may be purchased or generated from plant operation, and other wood residuals from plant operation, including pieces of wood containing resin). Use of any other fuel will require prior approval of the Executive Director of the Texas Commission on Environmental Quality (TCEQ).

3. Fuel for the Batch Kiln (EPN 20) shall be limited to pipeline-quality natural gas. Use of any other fuel will require prior approval of the Executive Director of the TCEQ.

4. Upon request by the Executive Director of the TCEQ or the TCEQ Regional Director or any local air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the fuels used in these facilities or shall allow air pollution control program representatives to obtain a sample for analysis.

Federal Applicability

5. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in Title 40 Code of Federal Regulations (40 CFR) Part 63, specifically the following:

   A. Subpart A - General Provisions; and

   B. Subpart DDDD - Plywood and Composite Wood Products.

Opacity/Visible Emission Limitations

6. Opacity of particulate matter emissions from the Continuous Dry Kilns A and B (EPNs 5 and 6), Shaving System Cyclone Discharge Stack (EPN 7), Dry Waste Cyclone Discharge Stack (8), Dry Fuel HP Transfer Cyclone Stack (EPN 9), Kiln A Fuel Silo HP Transfer Cyclone Stack (EPN 10), Kiln B Fuel Silo HP Transfer Cyclone Stack (EPN 11), and Batch Kiln (EPN 20) shall not exceed 10 percent, averaged over a six-minute period, except during scheduled or planned maintenance, startup, or shutdown (MSS) activities (such as those times described in 30 Texas Administrative Code (30 TAC) § 101.211).

7. Opacity of particulate matter emissions from the Shavings Bin HP Transfer Filter Bin Vent (EPN 14) shall not exceed 5 percent, averaged over a six-minute period, except during scheduled or planned

maintenance, startup, or shutdown (MSS) activities (such as those times described in 30 Texas Administrative Code (30 TAC) § 101.211).

8. Visible fugitive emissions from the Debarker (EPN 1); Bark Hog (EPN 2); Chipper (EPN 4); Sawing Operations (EPN 3); or the conveying, handling, storing, or loadout of shavings, bark, chips, and sawdust shall not leave the property for more than 30 cumulative seconds in any six-minute period.

Operational Limitations, Work Practices, and Plant Design

9. The facility shall be limited to the following hourly and annual production rates:

Table 1: Hourly and Annual Production Limits

Process	Hourly Production	Annual Production
Continuous Dry Kiln A (EPN 5)	18 MBF	130,000 MBF
Continuous Dry Kiln B (EPN 6)	18 MBF	130,000 MBF
Batch Kiln (EPN 20)	12 MBF	73,000 MBF
Debarker (EPN 1)	300 tons	1,342,700 tons
Bark Hog (EPN 2)	40 tons	170,600 tons
Chipper (EPN 4)	29 tons	123,100 tons
Sawing Operations (EPN 3)	285 tons	1,208,400 tons

MBF = thousand board feet

10. The Shaving System, Dry Waste System, Dry Fuel HP Transfer, and Shavings Bin HP Transfer (EPNs 7, 8, 9, and 14) shall be limited to a maximum operating schedule of 5,000 hours per year each. All other facilities are authorized to operate up to 8,760 hours per year.

11. The Bark Hog (EPN 2) shall be enclosed within a structure. The Bark Bin, Chip Bin and the Green Fuel Metering Bin (EPNs 12, 13and 16) shall be enclosed and the transfers into each bin shall be from an enclosed belt conveyor.

12. The Debarker (EPN 1), Sawing Operations (EPN 3), Chipper (EPN 4), and Chip Screens A and B (EPN 15) shall be enclosed within the Sawmill Building.

13. Emissions from the kilns (EPNs 5, 6, and 20) shall not exceed the following (all limits are based on a 3-hour average):

Table 2: Emission Limits

Kiln	PM	VOC (lb/MBF)	CO (lb/MMBtu)	NO_x (lb/MMBtu)	SO_2 (lb/MMBtu)
Continuous Dry Kilns A and B (EPNs 5 and 6)	0.055 lb/MMBtu (PM/PM_{10}) 0.046 lb/MMBtu ($PM_{2.5}$)	5.87	0.350	0.078	0.025
Batch Kiln (EPN 20)	0.047 lb/MBF ($PM/PM_{10}/PM_{2.5}$)	3.34	0.082	0.098	0.001

MMBtu = million British thermal units

14. A bin vent filter designed to meet an outlet grain loading of not more than 0.01 grains per dry standard cubic foot of exhaust each, properly installed and in good working order, shall control particulate matter emissions from the Shavings Bin HP Transfer (EPN 14) when this equipment is in operation.

15. Cyclones designed to meet an outlet grain loading of not more than 0.01 grains per dry standard cubic foot of exhaust each, properly installed and in good working order, shall control particulate matter emissions from the Shaving System, Dry Waste System, Dry Fuel HP Transfer, Kiln A Fuel Silo HP Transfer, and Kiln B Fuel Silo HP Transfer (EPNs 7, 8, 9, 10, and 11) when this equipment is in operation.

16. Material collected in the control devices shall be collected and disposed of in a manner that will minimize the material from becoming airborne. No outdoor storage of ash shall occur unless it is controlled by sprinkling with water and/or dust suppressants or the ash incorporated into composting operations. Disposal of ash must be accomplished in a manner which will prevent the ash from becoming airborne.

17. All external material handling equipment such as chain conveyors, screens, chippers, hogs, and/or drop/transfer points shall be operated with covers in place; enclosed, shrouded, or covered; or controlled in a manner to minimize fugitive emissions.

18. A visible and/or audible warning device shall be installed on each of the storage silos to warn operators when the silos are full so that silos are not overloaded. The silos shall not be overloaded at any time.

19. All hooding, duct, and collection systems shall be effective in capturing emissions from the intended equipment and in preventing fugitive emissions from the building. The hooding and duct systems shall be maintained free of holes, cracks, and other conditions that would reduce the collection efficiency of the emission capture system.

20. All in-plant roads, truck loading and unloading areas, and parking areas shall be paved (with a cohesive hard surface) and cleaned as necessary to maintain compliance with all applicable TCEQ rules and regulations.

21. The holder of this permit shall physically identify and mark in a conspicuous location all equipment that has the potential of emitting air contaminants as follows:

    A. The facility identification numbers as submitted to the Emissions Inventory Section of the TCEQ.

    B. The emission point numbers as listed on the Maximum Allowable Emission Rates Table (MAERT).

Planned Maintenance, Startup, and Shutdown Activities

22. Emissions during the startup of the Continuous Dry Kilns A and B shall be minimized by limiting the activity as follows:

    A. The maximum startup duration per kiln shall be limited to 12 hours/startup; and

    B. The maximum number of startups per year per kiln shall be limited to 4.

23. During startup of the Continuous Kilns, emissions shall be exhausted through the abort stacks (Green Fuel Burner A Startup [EPN 5MSS] and Green Fuel Burner B Startup [EPN 6MSS]).

24. Manufacturer's recommended maintenance of the Continuous Kilns is authorized. No firing of fuel shall take place during maintenance activities on the Continuous Kilns.

25. All maintenance activities shall be conducted to ensure compliance with the MAERT.

26. Entrained dust shall be allowed to settle prior to opening the control devices.

27. Upset conditions and the resulting emissions are not authorized by this permit.

28. No maintenance activities, other than the maintenance of the Continuous Kilns, are authorized by this permit.

Initial Determination of Compliance

29. To demonstrate compliance with the MAERT and with emission performance levels as specified in the special conditions, the holder of this permit shall perform stack sampling and/or other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the Shaving System Cyclone Discharge Stack (EPN 7) and Dry Waste Cyclone Discharge Stack (EPN 8). Air contaminants to be tested for include (but are not limited to) PM, PM_{10}, and $PM_{2.5}$. Sampling shall be accomplished within 60 days of achieving maximum production but not later than 180 days after start of operation. Sampling must be conducted in accordance with the TCEQ *Sampling Procedures Manual* or in accordance with the applicable EPA 40 CFR procedures. Any deviations from those procedures must be approved by the TCEQ Executive Director prior to sampling.

Demonstration of Continuous Compliance

30. Upon request by the TCEQ Executive Director or the TCEQ Regional Director having jurisdiction, the holder of this permit shall perform stack sampling and/or other testing as required to establish

the actual pattern and quantities of air contaminants being emitted into the atmosphere to demonstrate compliance with the MAERT and with emission performance levels as specified in the special conditions and/or otherwise prove satisfactory equipment performance. Sampling must be conducted in accordance with the TCEQ *Guidelines for Stack Sampling Facilities* and in accordance with the applicable EPA 40 CFR procedures. Any deviations from those procedures must be approved by the TCEQ Executive Director or the appropriate TCEQ Regional Director prior to conducting sampling.

31. The holder of this permit shall conduct a quarterly visible emissions determination to demonstrate compliance with the opacity limitations specified in this permit for the Shavings Bin HP Transfer Filter Bin Vent (EPN 14). This visible emissions determination shall be performed: 1) during normal plant operations, 2) for a minimum of six minutes, 3) approximately perpendicular to plume direction, 4) with the sun behind the observer (to the extent practicable), and 5) at least two stack heights, but not more than five stack heights, from the emission point. If visible emissions are observed from the emission point, the owner or operator shall:

    A. Take immediate action to eliminate visible emissions, record the corrective action within 24 hours, and comply with any applicable requirements in 30 Texas Administrative Code (TAC) § 101.201, Emissions Event Reporting and Recordkeeping Requirements; or

    B. Determine opacity using 40 CFR Part 60, Appendix A, Test Method 9. If the opacity limit is exceeded, take immediate action (as appropriate) to reduce opacity to within the permitted limit, record the corrective action within 24 hours, and comply with applicable requirements in 30 TAC § 101.201, Emissions Event Reporting and Recordkeeping Requirements.

32. The holder of this permit shall conduct a quarterly visible fugitive emissions determination to demonstrate compliance with the visible emissions limitation specified in this permit for the Debarker (EPN 1); Bark Hog (EPN 2); Chipper (EPN 4); Sawing Operations (EPN 3); or the conveying, handling, storing, or loadout of shavings, bark, chips, and sawdust. This visible fugitive emissions determination shall be performed: 1) during normal plant operations, 2) for a minimum of six minutes, 3) approximately perpendicular to plume direction, 4) with the sun behind the observer (to the extent practicable), 5) at least 15 feet, but not more than 0.25 mile, from the plume, and 6) in accordance with EPA 40 CFR Part 60, Appendix A, Test Method 22, except where stated otherwise in this condition. If visible fugitive emissions leaving the property exceed 30 cumulative seconds in any six-minute period, the owner or operator shall take immediate action (as appropriate) to eliminate the excessive visible fugitive emissions. The corrective action shall be documented within 24 business hours of completion.

Sampling Requirements

33. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at their own expense. Sampling ports and platforms shall be incorporated into the design of the stack(s) according to the specifications set forth in the TCEQ *Guidelines for Stack Sampling Facilities* prior to stack sampling. Alternate sampling facility designs may be submitted for approval by the TCEQ Regional Office with jurisdiction.

34. A pretest meeting shall be held with personnel from the TCEQ before the required tests are performed. The TCEQ Regional Office with jurisdiction shall be notified not less than 45 days prior to sampling to schedule a pretest meeting. The notice shall include:

A. Date for pretest meeting;

B. Date sampling will occur;

C. Points or sources to be sampled;

D. Name of firm conducting sampling;

E. Type of sampling equipment to be used; and

F. Method or procedure to be used in sampling.

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports.

35. Alternate sampling methods and representative unit testing may be proposed by the permit holder. A written proposed description of any deviation from sampling procedures or emission sources specified in permit conditions or TCEQ or EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. Such a proposal must be approved by the TCEQ Regional Office with jurisdiction at least two weeks prior to sampling.

36. Requests to waive testing for any pollutant specified shall be submitted, in writing, for approval to the TCEQ Office of Air, Air Permits Division in Austin.

37. During stack sampling emission testing, the facilities shall operate at maximum represented production rates. Primary operating parameters that enable determination of production rates shall be monitored and recorded during the stack test. These parameters are to be determined at the pretest meeting.

    If the plant is unable to operate at the maximum represented production rates during testing, then additional stack testing shall be required when the production rate exceeds the previous stack test production rate by +10 percent unless otherwise determined, in writing, by the TCEQ Executive Director.

38. Requests for additional time to perform sampling shall be submitted to the TCEQ Regional Office with jurisdiction. Additional time to comply with the applicable federal requirements requires EPA approval, and requests shall be submitted to the TCEQ Regional Office with jurisdiction.

39. Copies of the final sampling report shall be forwarded to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

    One copy to the TCEQ Regional Office with jurisdiction.

    One copy to the TCEQ Office of Air, Air Permits Division in Austin.

    One copy to each appropriate local air pollution control program with jurisdiction.

40. If, as a result of stack sampling, compliance with the permitted emission rates cannot be demonstrated, the holder of this permit shall adjust any operating parameters so as to comply with Special Condition No. 1 and the permitted emission rates.

41. If the holder of this permit is required to adjust any operating parameters for compliance, then beginning no later than 60 days after the date of the test conducted, the holder of this permit shall submit to the TCEQ, on a monthly basis, a record of adjusted operating parameters and daily records of production sufficient to demonstrate compliance with the permitted emission rates. Daily records of production and operating parameters shall be distributed as follows:

    One copy to the TCEQ Regional Office with jurisdiction.

    One copy to the TCEQ Office of Air, Air Permits Division in Austin.

Recordkeeping Requirements

42. Records shall be maintained at this facility site and made available at the request of personnel from the TCEQ or any other air pollution control program having jurisdiction to demonstrate compliance with permit limitations. These records shall be totaled for each calendar month, retained for a rolling 60-month period, and include the following:

    A. Hourly production of kiln-dried board feet for each kiln calculated monthly (in MBF);

    B. Annual production of kiln-dried board feet for each kiln (in MBF);

    C. Hourly and annual production from the Debarker, Bark Hog, Chipper, and Sawing Operations calculated monthly (in tons);

    D. Quarterly observations for visible emissions and/or opacity determinations from the Shavings Bin HP Transfer Filter Bin Vent (EPN 14);

    E. Quarterly observations for visible fugitive emissions for the Debarker (EPN 1); Bark Hog (EPN 2); Chipper (EPN 4); Sawing Operations (EPN 3); or the conveying, handling, storing, or loadout of shavings, bark, chips, and sawdust;

    F. All malfunctions, repairs, and maintenance of abatement systems, which includes bag replacement and the manufacturer's suggested cleaning and maintenance schedule;

    G. Hours of operation of the Shaving System, Dry Waste System, Dry Fuel HP Transfer, and Shavings Bin HP Transfer (EPNs 7,8, 9, and 14);

    H. Hours of operation of the continuous kilns (EPNs 5 and 6), identifying startup and shutdown periods; and

    I. Daily, monthly and annual records of the maintenance activities on the Continuous Kilns, including number of occurrences and duration.

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 152131 and PSDTX538

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour	TPY (4)
1	Debarker (5)	PM	0.06	0.13
		PM_{10}	0.03	0.07
		$PM_{2.5}$	0.02	0.03
2	Bark Hog (5)	PM	<0.01	0.02
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
3	Sawing Operations (5)	PM	1.00	2.11
		PM_{10}	0.50	1.06
		$PM_{2.5}$	0.25	0.53
4	Chipper (5)	PM	<0.01	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
5	Continuous Dry Kiln A (30 MMBtu/hr)	PM	1.65	6.85
		PM_{10}	1.65	6.85
		$PM_{2.5}$	1.37	5.71
		NO_x	1.13	4.69
		CO	10.49	43.59
		SO_2	0.75	3.12
		VOC	105.27	380.42
		HAP	5.69	21.19
5MSS	Green Fuel Burner A Startup	PM	3.41	0.08
		PM_{10}	3.02	0.07
		$PM_{2.5}$	2.63	0.06
		NO_x	2.34	0.06

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour	TPY (4)
		CO	5.80	0.14
		SO_2	0.24	<0.01
		VOC	0.16	<0.01
		HAP	0.37	<0.01
6	Continuous Dry Kiln B (30 MMBtu/hr)	PM	1.65	6.85
		PM_{10}	1.65	6.85
		$PM_{2.5}$	1.37	5.71
		NO_x	1.13	4.69
		CO	10.49	43.59
		SO_2	0.75	3.12
		VOC	105.27	380.42
		HAP	5.69	21.19
6MSS	Green Fuel Burner B Startup	PM	3.41	0.08
		PM_{10}	3.02	0.07
		$PM_{2.5}$	2.63	0.06
		NO_x	2.34	0.06
		CO	5.80	0.14
		SO_2	0.24	<0.01
		VOC	0.16	<0.01
		HAP	0.37	<0.01
7	Shaving System Cyclone Discharge Stack	PM	3.94	9.86
		PM_{10}	1.38	3.45
		$PM_{2.5}$	0.43	1.08
8	Dry Waste Cyclone Discharge Stack	PM	1.11	2.79
		PM_{10}	0.39	0.98
		$PM_{2.5}$	0.12	0.31
9		PM	0.03	0.09

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour	TPY (4)
	Dry Fuel HP Transfer Cyclone Stack	PM_{10}	0.01	0.03
		$PM_{2.5}$	<0.01	<0.01
10	Kiln A Fuel Silo HP Transfer Cyclone Stack	PM	0.15	0.68
		PM_{10}	0.05	0.24
		$PM_{2.5}$	0.02	0.07
11	Kiln B Fuel Silo HP Transfer Cyclone Stack	PM	0.15	0.68
		PM_{10}	0.05	0.24
		$PM_{2.5}$	0.02	0.07
12	Bark Bin Transfer (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
13	Chip Bin Transfer (5)	PM	<0.01	0.02
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
14	Shavings Bin HP Transfer Filter Bin Vent	PM	0.27	0.66
		PM_{10}	0.09	0.23
		$PM_{2.5}$	0.03	0.07
15	Chip Screens A and B (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
16	Green Fuel Metering Bin (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
17	Bark Truck Bin (5)	PM	0.05	0.09
		PM_{10}	0.02	0.04
		$PM_{2.5}$	<0.01	<0.01
18	Chips Truck Bin (5)	PM	0.09	0.18

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour	TPY (4)
		PM_{10}	0.04	0.09
		$PM_{2.5}$	<0.01	0.01
19	Shavings Truck Bin (5)	PM	0.02	0.04
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
20	Batch Kiln (40 MMBtu/hr)	PM	0.56	2.11
		PM_{10}	0.56	2.11
		$PM_{2.5}$	0.56	2.11
		NO_x	3.92	17.18
		CO	3.29	14.43
		SO_2	0.02	0.10
		VOC	40.06	122.12
		HAP	2.63	8.11

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Planned startup and shutdown emissions are included. Maintenance activities, except as specified in Special Condition Nos. 22 through 28, are not authorized by this permit and will need separate authorization, unless the activity can meet the conditions of 30 TAC § 116.119.

Date: February 19, 2019